Appl. No.: 10/813,795

Attorney Docket No. P-27,680 USA Reply to Action Dated 3/2/2006

Amendment to the Claims

This Listing of Claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (currently amended) A light beam detection device that receives invisible light and emits visible light in response to the received invisible light, the device comprising:

a light-receiving means for receiving [[a]] an invisible light beam and outputting a detection signal;

a light detection circuit for generating and outputting a light-emission signal based on the detection signal;

a light-emitting means for emitting visible light based on the light-emission signal;

a detection portion on which the light-receiving means and the light-emitting means are arranged <u>close together</u>;

a support for supporting the detection portion; and

a driving means for moving the support in a reciprocative manner in an X axis direction and a Y axis direction to form a detection region with the detection portion, wherein

the light-emitting means forms an afterimage on the detection region when the <u>invisible</u> light beam irradiates the detection region.

2. (canceled)

3. (original) The light beam detection device as claimed in claim 1, wherein the driving means includes an X axis direction driving means for reciprocating the support in the X axis direction and a Y axis direction driving means for vibrating the support in the Y axis direction; and

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the detection region is adjustable in size with the X axis direction driving means and the Y axis direction driving means.

- 4. (original) The light beam detection device as claimed in claim 1, wherein the light-emitting means has an emission brightness that is adjustable with the light detection circuit.
- 5. (original) The light beam detection device as claimed in claim 1, wherein the light detection circuit generates a comparison voltage based on the detection signal and holds a peak voltage of the comparison voltage, generates a reference voltage based on the held peak voltage, and compares the comparison voltage with the reference voltage to generate and output the light-emission signal when the comparison voltage is higher than the reference voltage.
- 6. (original) The light beam detection device as claimed in claim 1, wherein the support includes a supporting rod having a square cross section.
- 7. (currently amended) A light beam detection device that receives invisible light and emits visible light in response to the received invisible light, the device comprising:
- a light-receiving element for receiving [[a]] <u>an invisible</u> light beam and outputting a detection signal;
- a light detection circuit for generating and outputting a light-emission signal based on the detection signal;
- a light-emitting element for emitting <u>visible</u> light based on the light-emission signal;
- a detection member on which the light-receiving element and the light-emitting element are arranged <u>close together</u>;
 - a supporting member for supporting the detection member; and

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a driving device for moving the supporting member in a reciprocative manner in an X axis direction and a Y axis direction to form a detection region with the detection member, wherein

the light-emitting means forms an afterimage on the detection region when the <u>invisible</u> light beam irradiates the detection region.

8. (canceled)

9. (original) The light beam detection device as claimed in claim 7, wherein the driving device includes an X axis direction driving device for reciprocating the supporting member in the X axis direction and a Y axis direction driving device for vibrating the support in the Y axis direction; and

the detection region is adjustable in size with the X axis direction driving device and the Y axis direction driving device.

- 10. (original) The light beam detection device as claimed in claim 7, wherein the light-emitting element has an emission brightness that is adjustable with the light detection circuit.
- 11. (original) The light beam detection device as claimed in claim 7, wherein the light detection circuit generates a comparison voltage based on the detection signal and holds a peak voltage of the comparison voltage, generates a reference voltage based on the held peak voltage, and compares the comparison voltage with the reference voltage to generate and output the light-emission signal when the comparison voltage is higher than the reference voltage.
- 12. (original) The light beam detection device as claimed in claim 7, wherein the supporting member includes a supporting rod having a square cross section.